

Marc Baarmand

List of Publications by Year in descending order

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Version: 2024-02-01

371
papers

19,218
citations

13087

68
h-index

21521

114
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381
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381
docs citations

381
times ranked

9665
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212. | 1.4 | 541 |
| 2 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 1.4 | 499 |
| 3 | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 497 |
| 4 | Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{-}\mathrm{TeV}$. European Physical Journal C, 2012, 72, 1. | 1.4 | 369 |
| 5 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13, \sqrt{s}=8\text{ TeV}$. European Physical Journal C, 2019, 79, 421. | 1.4 | 355 |
| 6 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076. | 1.4 | 342 |
| 7 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 320 |
| 8 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$. European Physical Journal C, 2015, 75, 235. | 1.4 | 320 |
| 9 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at $\sqrt{s}=8\text{ TeV}$. European Physical Journal C, 2014, 74, 3036. | 1.4 | 241 |
| 10 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 230 |
| 11 | Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 200 |
| 12 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4. | 1.4 | 198 |
| 13 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8, \sqrt{s} = 8\text{ TeV}$. European Physical Journal C, 2015, 75, 542. | 1.4 | 191 |
| 14 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 1.4 | 181 |
| 15 | Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8, \sqrt{s} = 8\text{ TeV}$. European Physical Journal C, 2014, 74, 3149. | 1.4 | 179 |
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 168 |
| 20 | Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 158 |
| 21 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, \text{ and } 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 154 |
| 22 | Search for supersymmetry in hadronic final states with missing transverse energy using the variables \hat{L}_{\pm} T and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568. | 1.4 | 147 |
| 23 | Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 139 |
| 24 | Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1. | 1.4 | 135 |
| 25 | A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 129 |
| 26 | Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1. | 1.4 | 125 |
| 27 | Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 123 |
| 28 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 8, \text{ and } 7$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 1.4 | 123 |
| 29 | Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 122 |
| 30 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192. | 1.4 | 120 |
| 31 | Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 118 |
| 32 | Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 117 |
| 33 | Measurement of the Top Quark Mass Using Dilepton Events. Physical Review Letters, 1998, 80, 2063-2068. | 2.9 | 110 |
| 34 | The production cross section and angular correlations in collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 264-272. | 1.5 | 110 |
| 35 | Direct measurement of the top quark mass by the \bar{D} Collaboration. Physical Review D, 1998, 58, . | 1.6 | 107 |
| 36 | Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 106 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 103 |
| 38 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 101 |
| 39 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 100 |
| 40 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 99 |
| 41 | Measurement of the underlying event activity at the LHC with $\sqrt{s}=7$ TeV and comparison with $\sqrt{s}=0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 97 |
| 42 | Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 95 |
| 43 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 147. | 1.4 | 88 |
| 44 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 86 |
| 45 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 85 |
| 46 | A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575. | 6.0 | 85 |
| 47 | Study of double parton scattering using $W+2$ -jet events in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 85 |
| 48 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 85 |
| 49 | Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. European Physical Journal C, 2014, 74, 2847. | 1.4 | 85 |
| 50 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017. | 0.5 | 84 |
| 51 | Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 83 |
| 52 | Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W + X$ production at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 469. | 1.4 | 83 |
| 53 | Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509. | 1.4 | 83 |
| 54 | Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 1.4 | 82 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 81 |
| 56 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 81 |
| 57 | Measurement of the top quark mass in the dilepton channel. Physical Review D, 1999, 60, . | 1.6 | 80 |
| 58 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75. | 1.4 | 78 |
| 59 | Inclusive Jet Production in $p\bar{p}$ Collisions. Physical Review Letters, 2001, 86, 1707-1712. | 2.9 | 77 |
| 60 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 77 |
| 61 | Isolated Photon Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2000, 84, 2786-2791. | 2.9 | 75 |
| 62 | Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 75 |
| 63 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1. | 1.4 | 75 |
| 64 | Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 73 |
| 65 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251. | 1.4 | 73 |
| 66 | Measurement of the Top Quark Pair Production Cross Section in $p\bar{p}$ Collisions. Physical Review Letters, 1997, 79, 1203-1208. | 2.9 | 70 |
| 67 | Search for Large Extra Dimensions in Dielectron and Diphoton Production. Physical Review Letters, 2001, 86, 1156-1161. | 2.9 | 70 |
| 68 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 70 |
| 69 | Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3. | 1.4 | 70 |
| 70 | Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 69 |
| 71 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 69 |
| 72 | Cross Section for b-Jet Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2000, 85, 5068-5073. | 2.9 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 68 |
| 74 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469. | 1.4 | 68 |
| 75 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 68 |
| 76 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186. | 1.4 | 68 |
| 77 | Measurement of the $\overline{\text{t}}\text{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368. | 1.4 | 68 |
| 78 | Extraction of the width of the W boson from measurements of $\sigma(\text{pp} \rightarrow \text{t}^* \text{W} + \text{X}) \rightarrow \text{B}(\text{W} \rightarrow \text{e} \nu)$ and $\sigma(\text{pp} \rightarrow \text{t}^* \text{Z} + \text{X}) \rightarrow \text{B}(\text{Z} \rightarrow \text{e} \text{e})$ and their ratio. Physical Review D, 2000, 61, . | 1.6 | 67 |
| 79 | High-pT jets in $\text{p}\bar{\text{p}}$ collisions at $\sqrt{s} = 630$ and 1800 GeV. Physical Review D, 2001, 64, . | 1.6 | 67 |
| 80 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 65 |
| 81 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7, \text{TeV}$. European Physical Journal C, 2014, 74, 3129. | 1.4 | 65 |
| 82 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2283. | 1.4 | 64 |
| 83 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$. European Physical Journal C, 2016, 76, 439. | 1.4 | 64 |
| 84 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 63 |
| 85 | Inclusive Jet Cross Section in $\text{p}\bar{\text{p}}$ Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 1999, 82, 2451-2456. | 2.9 | 62 |
| 86 | Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW\gamma^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1. | 1.4 | 62 |
| 87 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 62 |
| 88 | Dijet Mass Spectrum and a Search for Quark Compositeness in $\text{p}\bar{\text{p}}$ Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 1999, 82, 2457-2462. | 2.9 | 61 |
| 89 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 61 |
| 90 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1. | 1.4 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | Search for single top quark production at $D\bar{A}^*$ using neural networks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 282-294. | 1.5 | 59 |
| 92 | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 59 |
| 93 | Search for anomalous t production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 58 |
| 94 | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 58 |
| 95 | Studies of jet mass in dijet and $W/Z + \text{jet}$ events. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 58 |
| 96 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$. European Physical Journal C, 2015, 75, 237. | 1.4 | 58 |
| 97 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV . European Physical Journal C, 2018, 78, 701. | 1.4 | 58 |
| 98 | Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales. Physical Review Letters, 1999, 82, 4769-4774. | 2.9 | 57 |
| 99 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Measurement of the W boson mass. Physical Review D, 1998, 58, . | 1.6 | 54 |
| 110 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288. | 1.4 | 54 |
| 111 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 54 |
| 112 | Determination of the absolute jet energy scale in the $D\bar{A}$ calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 424, 352-394. | 0.7 | 53 |
| 113 | Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 53 |
| 114 | Measurement of prompt and nonprompt $J/\psi/\psi'$ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. | 1.4 | 53 |
| 115 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459. | 1.4 | 52 |
| 116 | Measurements of the $pp \rightarrow Z\gamma Z$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 1.4 | 52 |
| 117 | Search for exclusive or semi-exclusive $\hat{t}\hat{t}^*$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 51 |
| 118 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 51 |
| 119 | Measurement of the W Boson Mass. Physical Review Letters, 1996, 77, 3309-3314. | 2.9 | 50 |
| 120 | First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572. | 1.4 | 50 |
| 121 | Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 50 |
| 122 | Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 49 |
| 123 | Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 49 |
| 124 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1. | 1.4 | 49 |
| 125 | Limits on Anomalous $WW^{\pm 3}$ Couplings from $pp \rightarrow t\bar{t}^*W^{\pm 3} + X$ Events at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1997, 78, 3634-3639. | 2.9 | 48 |
| 126 | Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 48 |

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|-----|--|-----|-----------|
| 127 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364. | 1.4 | 48 |
| 128 | Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in $p\bar{p}$ Collisions. Physical Review Letters, 1997, 79, 4321-4326. | 2.9 | 47 |
| 129 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 47 |
| 130 | Search for First Generation Scalar Leptoquark Pairs in pp Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1998, 80, 2051-2056. | 2.9 | 46 |
| 131 | Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 46 |
| 132 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 46 |
| 133 | Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707. | 1.4 | 46 |
| 134 | Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 45 |
| 135 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 44 |
| 136 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 151. | 1.4 | 44 |
| 137 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140. | 1.4 | 44 |
| 138 | Search for new physics in e^+e^- data at $\sqrt{s} = 209$ GeV using SLEUTH: A quasi-model-independent search strategy for new physics. Physical Review D, 2000, 62, . | 1.6 | 43 |
| 139 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060. | 1.4 | 43 |
| 140 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 43 |
| 141 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325. | 1.4 | 43 |
| 142 | Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 42 |
| 143 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 41 |
| 144 | Measurement of the $t\bar{t}$ production cross section in the e^+e^- channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 41 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jets})$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128. | 1.4 | 41 |
| 146 | Differential Production Cross Section of Z Bosons as a Function of Transverse Momentum at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2000, 84, 2792-2797. | 2.9 | 40 |
| 147 | Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 40 |
| 148 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{e}\mu + \text{jets})$ production cross section using events in the $\text{e}\mu + \text{jets}$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172. | 1.4 | 40 |
| 149 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789. | 1.4 | 40 |
| 150 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313. | 1.4 | 40 |
| 151 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378. | 1.4 | 40 |
| 152 | Measurement of Dijet Angular Distributions and Search for Quark Compositeness. Physical Review Letters, 1998, 80, 666-671. | 2.9 | 39 |
| 153 | Small-Angle Muon and Bottom-Quark Production in $\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jets}$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2000, 84, 5478-5483. | 2.9 | 39 |
| 154 | Quasi-Model-Independent Search for New High- p_T Physics at D0. Physical Review Letters, 2001, 86, 3712-3717. | 2.9 | 39 |
| 155 | Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 39 |
| 156 | Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 39 |
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